

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Paul ANUZIS et al.

Application No.: 09/898,008

Filed: July 5, 2001

For: HEALTH MONITORING

Group Art Unit: 2863

Examiner: T. Le

Docket No.: 110023

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Sir:

In reply to the October 3, 2003 Office Action, the period for reply extended to February 3, 2004 by a Petition for Extension of Time filed herewith, reconsideration of the above-identified application is respectfully requested.

Claims 1-18 are pending in this application.

**I. The Claims Define Patentable Subject Matter**

The Office Action rejects claims 1-18 under 35 U.S.C. §102(b) as being anticipated by "Application of a Neural Network in Gas Turbine Control Sensor Fault Detection", Simani et al. (hereinafter "Simani"). The rejection is respectfully traversed.

Applicants' claim 1 relates to monitoring the health of a system by constructing a condition signature from a plurality of condition indicators including a plurality of vibration measurements acquired from the system or one or more vibration measurements in one or more performance parameter measurements acquired from the system, predicting a normal signature from a model defining one or more inter-dependencies between the condition indicators, the normal signature corresponding to a condition signature for a healthy system,